REPORTED INDUCED ABORTIONS
MINNESOTA, 1981

Report No. 7
Minnesota Abortion Surveillance

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PREFACE

This report is the seventh in a series of analyses of data gathered during the Minnesota Abortion Surveillance. These data were collected, analyzed and prepared by the staff of the Minnesota Center for Health Statistics. Address correspondence to:

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INTRODUCTION

The Minnesota Abortion Surveillance is a statewide reporting system monitored by the Center for Health Statistics within the Minnesota Department of Health. Since introduction of the surveillance in 1974, data on abortions have been gathered through voluntary reporting by provider facilities throughout Minnesota. Continuous facility recruiting has been conducted to enlist all possible sources of abortion data, yielding the present 25 data providers enrolled on the system.

Analysis of data received through the surveillance has provided current public health information on abortions including demographic profiles of the abortion patients.

Since, by definition, a voluntary surveillance is subject to partial and incomplete reporting of events, this report and the data collected do not imply the complete and comprehensive status of legal abortion in Minnesota. The intention of this report is to describe as accurately as possible the situation as it was reported during the Surveillance period.

SYMBOLS

Data not available
Data not applicable . . . . . -

Quantity zero 0

Quantity >0 but <0.05 . . . . . 0.0

HISTORICAL RELATIONSHIP OF THE MINNESOTA ABORTION SURVEILLANCE TO NATIONAL ABORTION DATA

Although continuous reporting of induced abortions was initiated nationally by the Center of Disease Control (CDC) in Atlanta during 1969, data on Minnesota women did not appear in CDC's "Surveillance Report" until 1972. In that year, 2,227 abortions to Minnesota resident women were reported by agencies outside Minnesota.[1] Abortion services first became available in Minnesota in 1973.[2] In 1973 and 1974, the CDC solicited reports of induced abortions from several hospitals and clinics in Minnesota. In 1974, the Minnesota Abortion Surveillance was established by the Center for Health Statistics, Minnesota Department of Health, for the voluntary reporting of abortions performed in the state. The first year "testing phase" of the Surveillance provided CDC with three (3) months of survey data which CDC published in lieu of its solicited abortion data. 1975 marked the first complete year of the Minnesota-based Surveillance and since then annual abortion data have been supplied to CDC, as well as to other federal, state, and private agencies.

In 1979, the last year for which national data are available, CDC reported 1,238,987 abortions performed in the fifty (50) states and the District of Columbia. The national abortion ratio for that year was 358 abortions per 1,000 live births.[3] The Minnesota resident abortion ratio in the same year was 239.5 abortions per 1,000 live births.

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[1] Center for Disease Control: "Abortion Surveillance, 1972," issued April, 1974.

[2] In 1973, a January 22 United States Supreme Court decision legalized abortion in the United States, superseding Minnesota prohibitions on abortions.

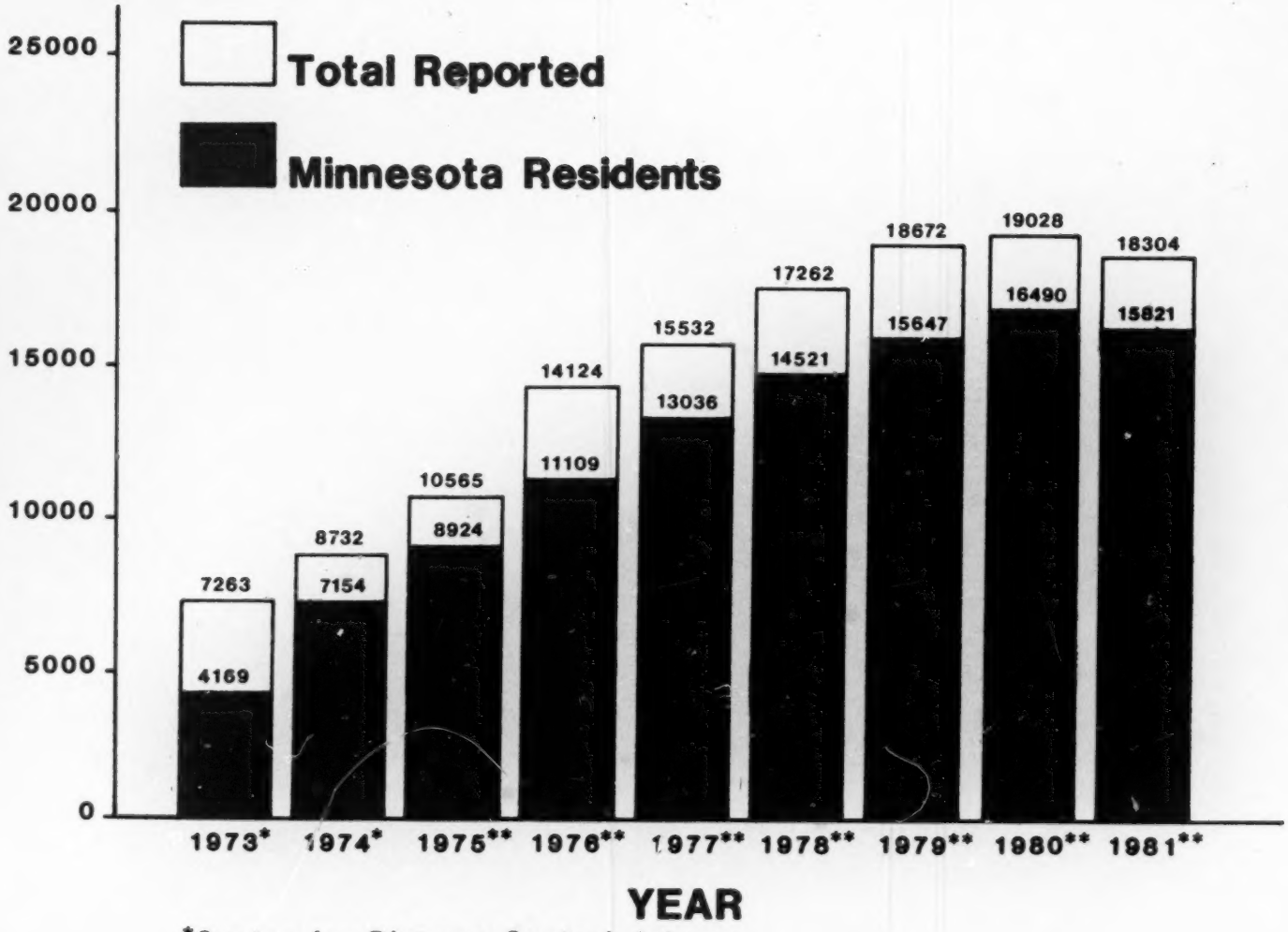
[3] Center for Disease Control: "Morbidity and Mortality Weekly Report." Vol. 31, No. 4, Issued January 5, 1982.

The number of resident and total abortions in the state from 1973-1981 is shown in Graph 1.

As can be seen, the number of reported abortions has increased over the past eight years with 1981 showing the first decline. The greatest increase, of approximately 34%, occurred between 1975 and 1976. The first decrease in the abortions trend occurred in 1981 and was 3.8%.

The proportion of abortions to state residents versus total reported abortions in Minnesota is also shown in Graph 1. Over time, the proportion of resident abortions has remained relatively stable, fluctuating from a low of 79% in 1976 to a high in 1980 of 87%. In 1981 the proportion was 86%.

GRAPH 1
REPORTED INDUCED ABORTIONS MINNESOTA 1973 to 1981



*Center for Disease Control data
**Minnesota Abortion Surveillance data

SURVEILLANCE RESULTS, 1981

The number of induced abortions recorded by the Minnesota Abortion Surveillance decreased in this seventh year since reporting began. Minnesota facilities reported 18,304 abortions in 1981, a 3.8 % decrease from the 19,028 reported in 1980. The number of Minnesota resident women receiving abortions in Minnesota facilities showed a 4.1% decrease from 16,490 in 1980 to 15,821 in 1981.

The ages of Minnesota women receiving abortions was 11 to 48 years. Women under 20 years accounted for 30.9% of all reported procedures, while women 40 and over comprised 1.1% of the total. As shown in Table A (page 8), the proportion of abortion recipients under age 20 decreased from 38.1% reported in 1977 to the 1981 figure of 30.9%. During this period, the proportion of abortion recipients aged 40 and over also decreased, indicating an increase in the proportion of recipients 20 - 39 years old.

Never married women represented 70.1% of the resident women having abortions. Although 14.1% of all abortion recipients indicated they were married, only 2.2% of those younger than 20 years specified "currently married."

Among those abortions where race of patient was reported, the race and ethnic distribution of Minnesota resident women receiving abortions in 1981 was: 90.9% White, 5.0% Black, 1.1% Indian, 0.7% Hispanic, 2.3% other races. These data reflect no major changes from 1980.

Prior abortions were reported in 26.4% of the overall resident reports, and by 32.1% of the women aged 20-39 years. One or more previous

births was reported by 29.5% of all patients and by 93.7% of those aged 40 and over.

1980 was the first full year in which five category choices relative to abortion recipients' "contraceptive use at the time of conception" were available for reporting by Minnesota facilities. Prior to July, 1979, facility coders categorized abortion recipient's contraceptive - use responses as: 1) Never used 2) Have used but discontinued 3) Was using at conception, or 4) Contraceptive use unknown. In July of 1979, a fifth category, "Interrupted use of usual method" was added to the reporting form. This new category means that the abortion recipient indicated regular contraceptive use, but during the cycle in which the pregnancy was conceived, missed a pill or two, did not check for her IUD string, did not use her diaphragm on one or two occasions, did not abstain during her fertile period, etc. Addition of the new category allows for clearer differentiation between contraceptive method failure and human error. During 1981, interrupted use appeared in 8.7% of the reported resident abortions.

As shown by Table A approximately three quarters of the 1981 Minnesota resident abortion recipients reported some prior contraceptive experience. Approximately one quarter, however, reported contraceptive use at the time of conception. As this figure is subject to reporting error it may reflect more than mechanical failures of the contraceptive method. It very likely includes use failures; that is, the method was used carelessly or without knowledge or understanding of proper use.

For approximately one in five of the abortions reported to state

residents, no prior use of contraception was indicated.

As in previous Surveillance years, first trimester patients (≤12 weeks gestation) accounted for the majority of all women receiving abortions (88.5%). Table A indicates that abortions in 1981 were done at an earlier gestational age than in previous Surveillance years. The proportion of abortions performed after 15 weeks gestation decreased from 6.1% in 1977 to 4.8% in 1981.

The lowest complication rate in the five years of reporting was observed in 1979, not 1981. Major complications were noted for only 18 of the resident abortions in 1979, but totalled 40 in 1981.

During 1979 data privacy regulations eliminated the major channels through which the Minnesota Center for Health Statistics had previously verified complication reports, creating a greater margin of error relative to the reporting of actual abortion-related complications occurring in Minnesota. Despite the increase in number, the 1981 complication rate of 2.5 complications per 1,000 abortions was lower than those rates observed in 1977 and 1978.

Abortion-related complications included any of the following factors: 1) Hemmorrhage (500 ml or greater); 2) Pelvic infection; 3) Fever (>38^{0} C); 4) Cervical injury; 5) Uterine perforation; 6) Retained tissue; 7) Continuing pregnancy (incomplete abortion); and 8) Any other medical complication related to the abortion procedure.

The abortion rate (number of abortions per 1,000 women aged 15-44) has increased for the past six years. The Minnesota abortion rate in 1981 was 16.5% as compared to the rate of 10.3% observed in 1975.

TABLE A

REPORTED INDUCED ABORTIONS
SELECTED SURVEILLANCE RESULTS AND COMPARISONS
MINNESOTA, 1977-1981

Reported Induced Abortions[1]	1977*	1978	1979	1980	1981	Percent Change 1980-81	Percent Change 1977-81
Total Reported Abortions	15,532	17,262	18,672	19,028	18,304	- 3.8	+17.8
Minnesota Resident Abortions	13,036	14,521	15,647	16,490	15,821	- 4.1	+21.4
Total Monthly Average	1,294	1,438	1,556	1,586	1,525	- 3.8	+17.9
Resident Monthly Average	1,086	1,210	1,304	1,374	1,318	- 4.1	+21.4
Gestational Age[1]							
Proportion <9 weeks	37.1%	35.4%	36.4%	38.1%	45.6%	+19.7%	+22.9%
Proportion <13 weeks	86.0%	86.4%	88.4%	86.9%	88.5%	+ 1.8%	+ 2.9%
Proportion ≥16 weeks	6.1%	5.6%	4.1%	5.4%	4.8%	-11.1%	-21.3%
Patient's Age[1]							
Proportion <Age 16	3.2%	2.6%	2.2%	2.3%	2.1%	- 8.7%	-34.4%
Proportion <Age 20	38.1%	36.1%	35.8%	34.6%	30.9%	-10.7%	-18.9%
Proportion ≥Age 40	1.5%	1.0%	1.1%	1.1%	1.1%	0	-26.7%
Contraception[1]							
Proportion "Never Used"	29.2%	25.9%	24.0%	22.4%	20.6%	- 8.0%	-29.5%
Proportion "Have Used but Discontinued"	48.5%	45.5%	44.8%	40.7%	44.9%	+10.3%	- 7.4%
Proportion "Was Using at Conception"	18.9%	21.6%	25.3%	25.9%	22.5%	-13.1%	+19.0%
Proportion "Interrupted Use of Usual Method"[2]	-	-	2.7%	6.7%	8.7%	+29.9%	-
Complications[1]							
Total Per 1,000 Procedures	2.70	2.90	1.18	2.52[3]	2.57	+ 2.0	- 4.8
Resident Per 1,000 Procedures	2.76	3.17	1.15	2.30[3]	2.53	+10.0	- 8.3
Resident - Suction Curettage	2.63	2.84	0.82	1.71[3]	2.30	+34.5	-12.5
Resident - All Other Methods	3.97	5.39	3.07	5.69[3]	4.21	-26.0	+ 6.0

[1]Note: All data are Minnesota resident abortion statistics unless "Total" is indicated.

[2]Category was added July 1979.

[3]Percentages for 1980 were incorrectly reported in the 1980 Report, and are corrected here.

*Data from earlier years are available from MDH.

GRAPH 2

REPORTED INDUCED ABORTIONS
NUMBER REPORTED BY RECIPIENT's AGE
MINNESOTA RESIDENTS, 1981

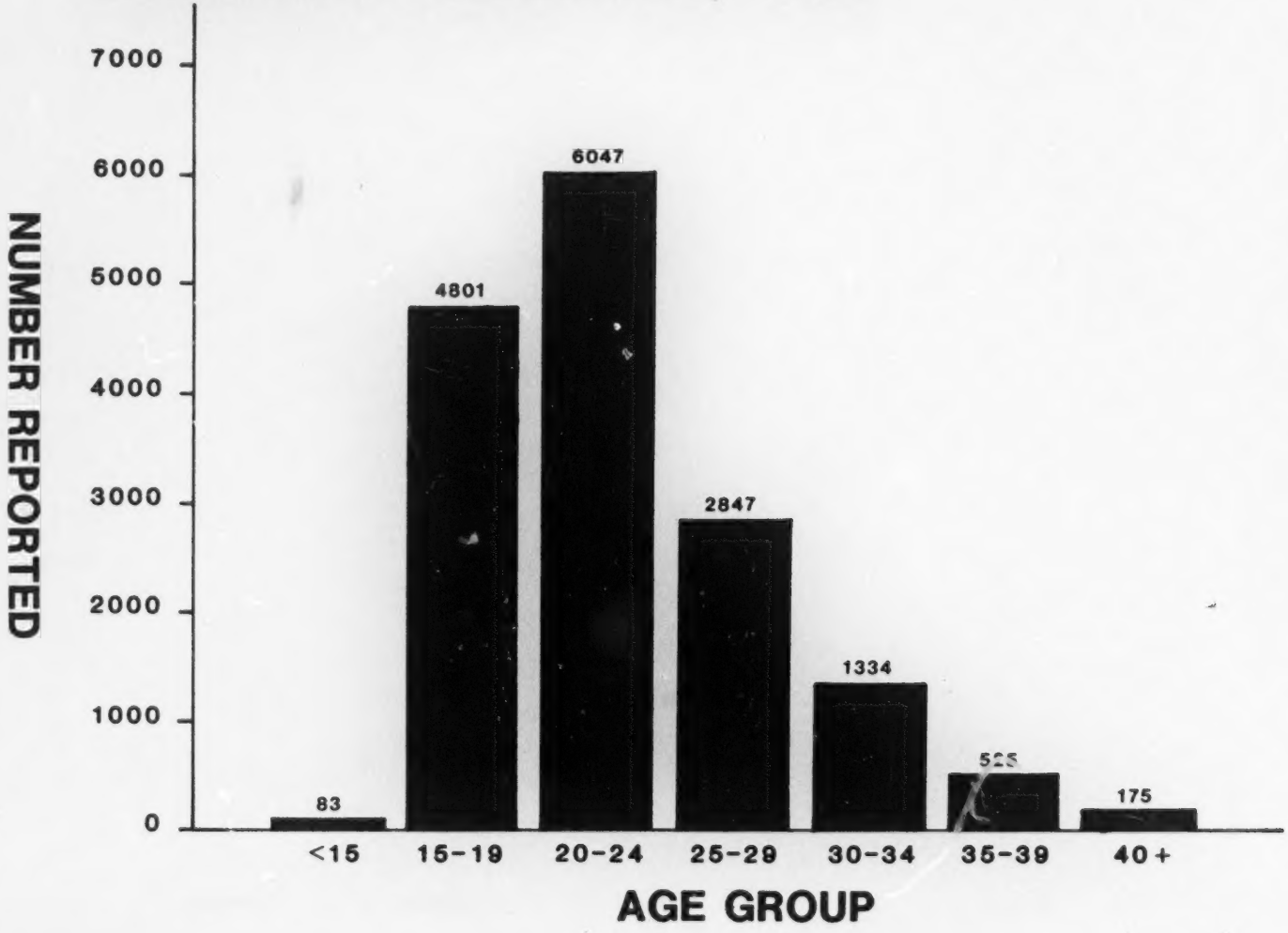


Table 1

REPORTED INDUCED ABORTIONS
BY AGE GROUP AND RESIDENCE

MINNESOTA, 1981

Age Group	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
<15	105	0.6	83	0.5	79.0
15-19	5,681	31.0	4,801	30.3	84.5
20-24	6,989	38.2	6,047	38.2	86.5
25-29	3,196	17.5	2,847	18.0	89.1
30-34	1,491	8.1	1,334	8.4	89.5
35-39	621	3.4	525	3.3	84.5
40+	210	1.1	175	1.1	83.3
Unknown	11	0.1	9	0.1	81.8
TOTAL	18,304	100.0	15,821	100.0	86.4

$$* \text{ Resident Percentage} = \frac{\text{Minnesota Resident Abortions (age X)}}{\text{Total Reported Abortions (age X)}} \times 100$$

Table 2

REPORTED INDUCED ABORTIONS
BY INDIVIDUAL AGE FOR TEENAGE PATIENTS
AND BY SELECTED AGE GROUP BY RESIDENCE

MINNESOTA, 1981

	Total Reported Abortions			Minnesota Resident Abortions			
Age	Number	Percentage of Teens	Percentage of Total	Number	Percentage of Teens	Percentage of Residents	Resident Percentage*
<12	2	0.0	0.0	2	0.0	0.0	100.0
12	1	0.0	0.0	1	0.0	0.0	100.0
13	15	0.3	0.1	12	0.2	0.1	80.0
14	87	1.5	0.5	68	1.4	0.4	78.2
15	303	5.2	1.7	245	5.0	1.5	80.9
16	694	12.0	3.8	587	12.0	3.7	84.6
17	1,077	18.6	5.9	905	18.5	5.7	84.0
18	1,757	30.4	9.6	1,509	30.9	9.5	85.9
19	1,850	32.0	10.1	1,555	31.8	9.8	84.1
10-19	5,786	100.0	31.7	4,884	100.0	30.9	84.4
20-29	10,185	-	55.6	8,894	-	56.2	87.3
30-39	2,112	-	11.5	1,859	-	11.8	88.0
40+	210	-	1.1	175	-	1.1	83.3
Unknown	11	-	0.1	9	-	0.1	81.8
TOTAL	18,304	-	100.0	15,821	-	100.0	86.4

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions}}{\text{Total Reported Abortions}} \times 100$

Table 3

REPORTED INDUCED ABORTIONS
BY RACE/ETHNIC GROUP AND RESIDENCE

MINNESOTA, 1981

Race	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
White	16,523	90.3	14,146	89.4	85.6
Black	796	4.3	774	4.9	97.2
American Indian	194	1.1	166	1.0	85.6
Hispanic	117	0.6	111	0.7	94.9
Other	374	2.0	358	2.3	95.7
Unknown	300	1.6	266	1.7	88.7
TOTAL	18,304	100.0	15,821	100.0	86.4

$$* \text{ Resident Percentage} = \frac{\text{Minnesota Resident Abortions (race X)}}{\text{Total Reported Abortions (race X)}} \times 100$$

Table 4

REPORTED INDUCED ABORTIONS
BY MARITAL STATUS AND RESIDENCE

MINNESOTA, 1981

Marital Status	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
Never Married	12,880	70.4	11,090	70.1	86.1
Married	2,583	14.1	2,237	14.1	86.6
Divorced	1,551	8.5	1,365	8.6	88.0
Separated	621	3.4	533	3.4	85.8
Widowed	85	0.5	75	0.5	88.2
Unknown	584	3.2	521	3.3	89.2
TOTAL	18,304	100.0	15,821	100.0	86.4

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions}}{\text{Total Reported Abortions}} \times 100$

Table 5

REPORTED INDUCED ABORTIONS
BY AGE GROUP AND MARITAL STATUS
MINNESOTA RESIDENTS, 1981

Age Group	Reported Resident Abortions	Marital Status					
		Never Married	Currently Married	Divorced	Separated	Widowed	Unknown
<15	83	83	0	0	0	0	0
15-19	4,801	4,540	109	21	28	2	101
20-24	6,047	4,672	636	339	187	13	200
25-29	2,847	1,374	692	463	175	18	125
30-34	1,334	340	464	361	90	18	61
35-39	525	63	236	146	41	18	21
40+	175	13	99	34	11	6	12
Unknown	9	5	1	1	1	0	1
TOTAL	15,821	11,090	2,237	1,365	533	75	521

GRAPH 3

REPORTED INDUCED ABORTIONS

PERCENT OF TOTAL RESIDENT ABORTIONS BY WEEKS OF GESTATION MINNESOTA, 1981

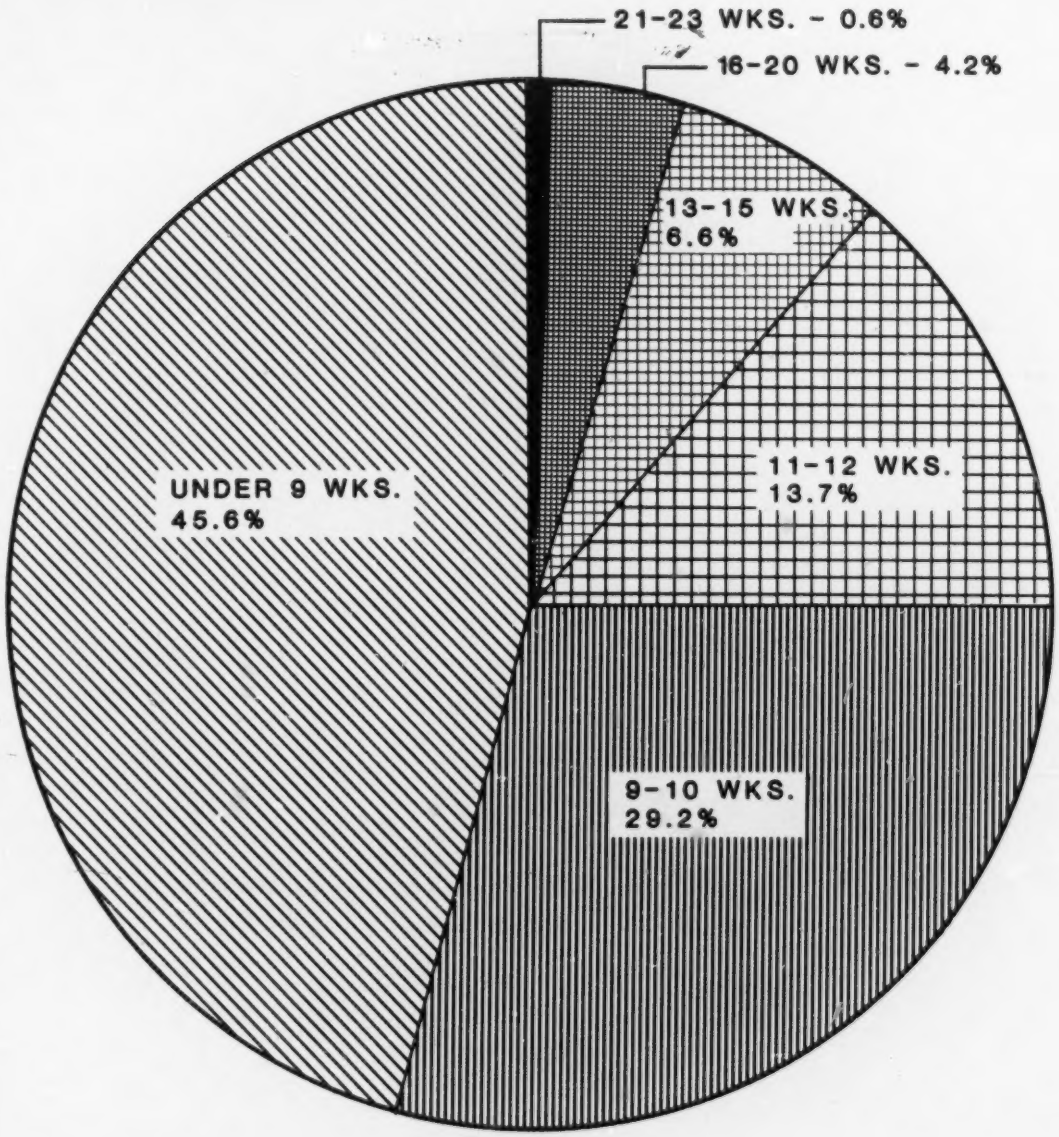


Table 6

REPORTED INDUCED ABORTIONS
BY GESTATION AND RESIDENCE

MINNESOTA, 1981

Weeks of Gestation* (Post LMP)	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage**
	Number	Percentage	Number	Percentage	
<9	7,958	43.5	7,211	45.6	90.6
9-10	5,302	29.0	4,625	29.2	87.2
11-12	2,571	14.0	2,170	13.7	84.4
13-15	1,283	7.0	1,049	6.6	81.8
16-20	992	5.4	669	4.2	67.4
21-23	198	1.1	97	0.6	49.0
TOTAL	18,304	100.0	15,821	100.0	86.4

* Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

** Resident Percentage = $\frac{\text{Minnesota Resident Abortions (week X)}}{\text{Total Reported Abortions (week X)}} \times 100$

Table 7

REPORTED INDUCED ABORTIONS
BY AGE GROUP BY WEEKS OF GESTATION
MINNESOTA RESIDENTS, 1981

Age Group	Reported Resident Abortions	Gestation in Weeks* (LMP) <9	9-10	11-12	13-15	16-20	21-23
<15	83	26	10	21	12	12	2
15-19	4,801	1,746	1,442	812	462	304	35
20-24	6,047	2,864	1,752	806	369	217	39
25-29	2,847	1,509	832	305	113	75	13
30-34	1,334	714	374	144	61	36	5
35-39	525	281	146	57	24	15	2
40+	175	66	67	23	8	10	1
Unknown	9	5	2	2	0	0	0
TOTAL	15,821	7,211	4,625	2,170	1,049	669	97

* Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

Table 8

REPORTED INDUCED ABORTIONS
BY NUMBER OF PRIOR ABORTIONS
AND RESIDENCE

MINNESOTA, 1981

Number of Prior Abortions	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
0	13,694	74.8	11,639	73.6	85.0
1	3,642	19.9	3,271	20.7	89.8
2	755	4.1	708	4.5	93.8
3	162	0.9	156	1.0	96.3
4	36	0.2	33	0.2	91.7
5+	15	0.1	14	0.1	93.3
Unknown	0	0	0	0	0
TOTAL	18,304	100.0	15,821	100.0	86.4

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions}}{\text{Total Reported Abortions}} \times 100$

GRAPH 4

REPORTED INDUCED ABORTIONS PERCENT DISTRIBUTION FIRST TIME ABORTION RECIPIENTS VERSUS REPEAT ABORTION RECIPIENTS BY AGE GROUP MINNESOTA RESIDENTS, 1981

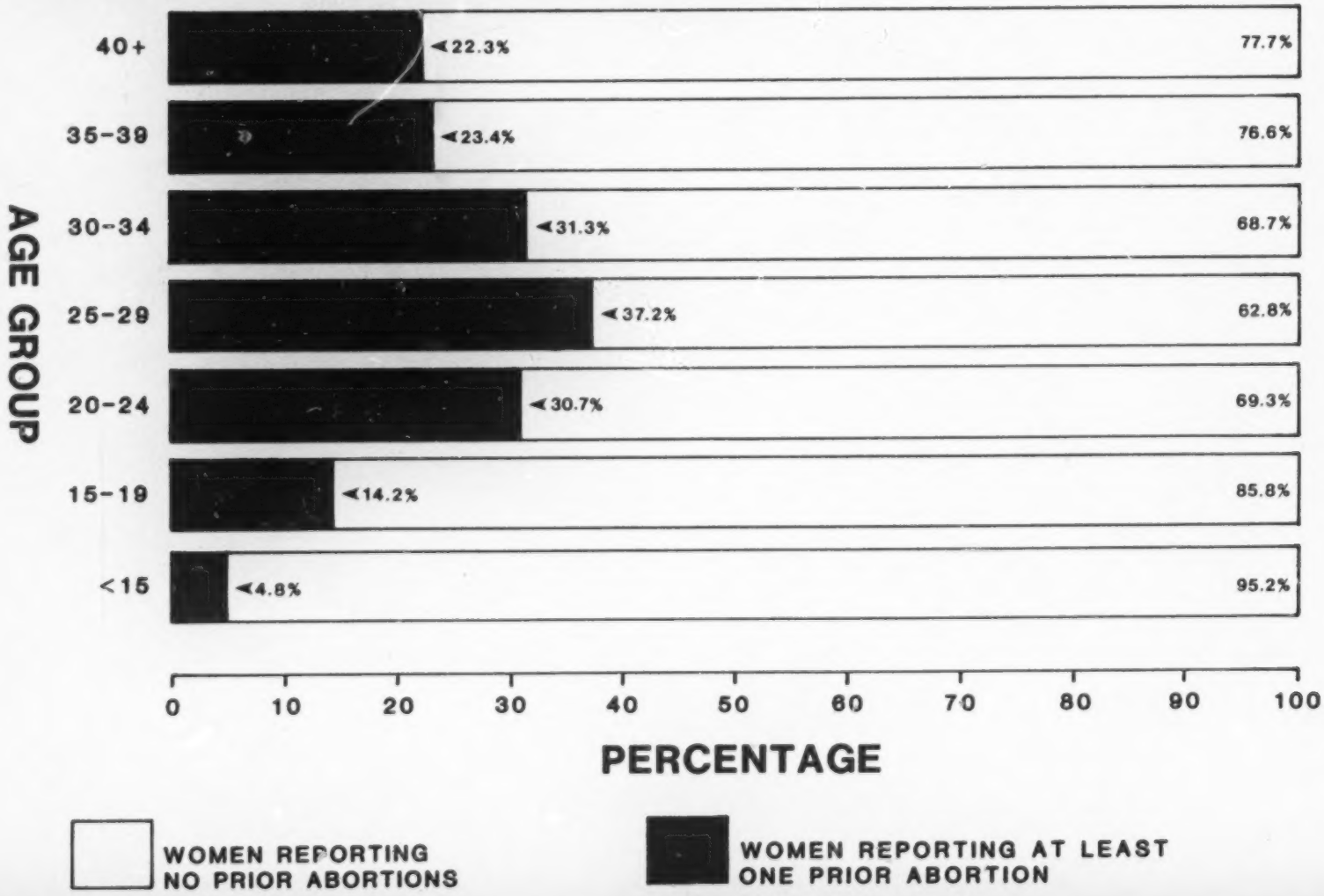


Table 9

REPORTED INDUCED ABORTIONS
PATIENTS REPORTING PRIOR ABORTIONS
BY AGE GROUP AND RESIDENCE

MINNESOTA, 1981

Age Group	Total Reported Abortions			Minnesota Resident Abortions		
	Number	Prior Abortions*	%**	Number	Prior Abortions*	%**
<15	105	5	4.8	83	4	4.8
15-19	5,681	751	13.2	4,801	680	14.2
20-24	6,989	2,060	29.5	6,047	1,856	30.7
25-29	3,196	1,147	35.9	2,847	1,059	37.2
30-34	1,491	453	30.4	1,334	417	31.3
35-39	621	145	23.3	525	123	23.4
40+	210	45	21.4	175	39	22.3
Unknown	11	4	36.4	9	4	44.4
TOTAL	18,304	4,610	25.2	15,821	4,182	26.4

* Number of women who reported at least one prior abortion.

** Percentage of women within each age group who reported having had at least one prior abortion.

Table 10

REPORTED INDUCED ABORTIONS
BY NUMBER OF PRIOR LIVE BIRTHS
AND RESIDENCE

MINNESOTA, 1981

Number of Prior Live Births	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
0	13,010	71.1	11,161	70.5	85.8
1	2,637	14.4	2,349	14.8	89.1
2	1,680	9.2	1,466	9.3	87.3
3	630	3.4	540	3.4	85.7
4	197	1.1	169	1.1	85.8
5	78	0.4	70	0.4	89.7
6	34	0.2	32	0.2	94.1
7	22	0.1	18	0.1	81.8
8	5	0.0	5	0.0	100.0
9+	11	0.1	11	0.1	100.0
Unknown	0	0	0	0	0
TOTAL	18,304	100.0	15,821	100.0	86.4

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions}}{\text{Total Reported Abortions}} \times 100$

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Table 11

REPORTED INDUCED ABORTIONS
PATIENTS REPORTING PRIOR LIVE BIRTHS
BY AGE GROUP AND RESIDENCE

MINNESOTA, 1981

Age Group	Total Reported Abortions			Minnesota Resident Abortions		
	Number	Prior Live Births*	%**	Number	Prior Live Births*	%**
<15	105	0	0	83	0	0
15-19	5,681	469	8.3	4,801	419	8.7
20-24	6,989	1,737	24.9	6,047	1,539	25.5
25-29	3,196	1,396	43.7	2,847	1,238	43.5
30-34	1,491	986	66.1	1,334	873	65.4
35-39	621	506	81.5	525	424	80.8
40+	210	197	93.8	175	164	93.7
Unknown	11	3	27.3	9	3	33.3
TOTAL	18,304	5,294	28.9	15,821	4,660	29.5

* Number of women who reported at least one prior live birth.

** Percentage of women within each age group who reported having had at least one prior live birth.

Table 12

REPORTED INDUCED ABORTIONS
BY METHOD BY WEEKS OF GESTATION

MINNESOTA RESIDENTS, 1981

Method*	Reported Resident Abortions	Gestation in Weeks** (LMP) <9	9-10	11-12	13-15	16-20	21-23
Suction Curettage	13,921	6,886	4,405	1,905	666	58	1
Laminaria & Curettage	1,089	40	25	27	323	602	72
Combination	753	256	195	238	59	3	2
Prostaglandin	27	0	0	0	1	4	22
Sharp Curettage	0	0	0	0	0	0	0
Hysterectomy Hysterotomy	0	0	0	0	0	0	0
Saline	0	0	0	0	0	0	0
Menstrual Extraction(-)***	22	20	0	0	0	2†	0
Menstrual Extraction(+)***	9	9	0	0	0	0	0
TOTAL	15,821	7,211	4,625	2,170	1,049	669	97

* See definitions of methods in index.

** Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

*** (-) Negative tissue pathology (not pregnant)
(+) Positive tissue pathology (pregnancy confirmed)

† Reported gestational data may be inaccurate, however data privacy regulations make it difficult to trace individual report forms for correction.

Table 13

REPORTED INDUCED ABORTIONS
BY METHOD BY COMPLICATIONS AND RESIDENCE
MINNESOTA, 1981

	Total Reported Abortions				Minnesota Resident Abortions			
Method*	Procedures	%	Complications	Rate/1000**	Procedures	%	Complications	Rate/1000**
Suction Curettage	15,741	86.0	38	2.41	13,921	88.0	32	2.30
Laminaria & Curettage	1,583	8.6	8	5.05	1,089	6.9	7	6.43
Combination	906	4.9	1	1.10	753	4.8	1	1.33
Prostaglandin***	38	0.2	0	0	27	0.2	0	0
Sharp Curettage	1	0.0	0	0	0	0	0	0
Hysterectomy Hysterotomy	0	0	0	0	0	0	0	0
Saline	0	0	0	0	0	0	0	0
Menstrual Extraction(-)†	24	0.1	0	0	22	0.1	0	0
Menstrual Extraction(+)†	11	0.1	0	0	9	0.1	0	0
TOTAL	18,304	100.0	47	2.57	15,821	100.0	40	2.53

Reported complications include the categories hemorrhage (≥500 ml), pelvic infection, fever, cervical injury, uterine perforation, retained tissue and other procedure related conditions.

* See definitions of methods in the index.

** Rate is reported complications per 1,000 abortion procedures.

*** Due to reporting difficulties residence is unknown for all prostaglandin procedure patients.

† (-) Negative tissue pathology (not pregnant)
(+) Positive tissue pathology (pregnancy confirmed)

GRAPH 5

REPORTED INDUCED ABORTIONS
LEVEL OF CONTRACEPTIVE USE BY AGE GROUP
MINNESOTA RESIDENTS, 1981

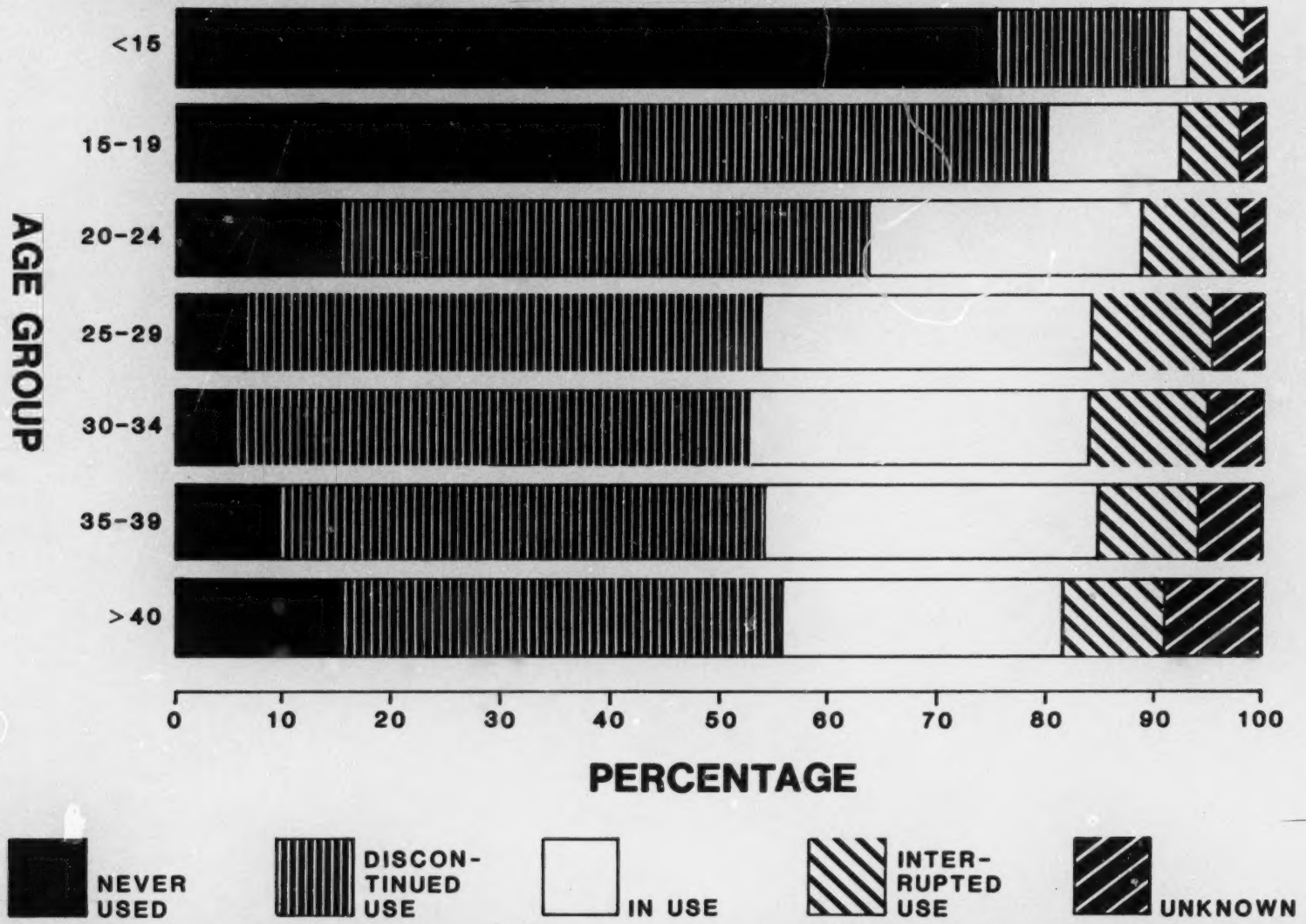


Table 14

REPORTED INDUCED ABORTIONS
BY AGE GROUP BY CONTRACEPTIVE USE
MINNESOTA RESIDENTS, 1981

Age Group	Reported Resident Abortions	Reported Contraceptive Use*									
		Never Used	%**	Discontinued Use	%**	In Use	%**	Interrupted Use	%**	Unknown	%**
<15	83	62	74.7	13	15.7	2	2.4	4	4.8	2	2.4
15-19	4,801	1,937	40.3	1,871	39.0	599	12.5	265	5.5	129	2.7
20-24	6,047	918	15.2	2,928	48.4	1,464	24.2	574	9.5	163	2.7
25-29	2,847	187	6.6	1,356	47.6	867	30.5	319	11.2	118	4.1
30-34	1,334	73	5.5	623	46.7	423	31.7	151	11.3	64	4.8
35-39	525	51	9.7	234	44.6	158	30.1	47	9.0	35	6.7
40+	175	28	16.0	70	40.0	45	25.7	17	9.7	15	8.6
Unknown	9	2	22.2	4	44.4	2	22.2	1	11.1	0	0.0
TOTAL	15,821	3,258	20.6	7,099	44.9	3,560	22.5	1,378	8.7	526	3.3

* Responses given--
Never used - I've never used any form of birth control.
Discontinued use - I've used some type of birth control but not when I became pregnant.
In use - I was using contraception when I became pregnant.
Interrupted use - I usually use a method of contraception but through human error it was not effective (missed a pill or two, forgot to check for my IUD, did not use my diaphragm once or twice, etc.).

** Percent is read horizontally to equal 100%, i.e., each percent is the proportion of women in that age group reporting any contraceptive use.

Table 15

REPORTED INDUCED ABORTIONS
MARITAL STATUS BY REPORTED CONTRACEPTIVE USE
MINNESOTA RESIDENTS, 1981

Marital Status	Reported Resident Abortions	Reported Contraceptive Use*									
		Never Used	%**	Discontinued Use	%**	In Use	%**	Interrupted Use	%**	Unknown	%**
Never Married	11,090	2,875	25.9	4,853	43.8	2,194	19.8	909	8.2	259	2.3
Married	2,237	188	8.4	936	41.8	774	34.6	225	10.1	114	5.1
Divorced	1,365	76	5.6	764	56.0	371	27.2	112	8.2	42	3.1
Separated	533	36	6.8	324	60.8	105	19.7	52	9.8	16	3.0
Widowed	75	12	16.0	35	46.7	22	29.3	3	4.0	3	4.0
Unknown	521	71	13.6	187	35.9	94	18.0	77	14.8	92	17.7
TOTAL	15,821	3,258	20.6	7,099	44.9	3,560	22.5	1,378	8.7	526	3.3

* Responses given--
Never used - I've never used any form of birth control.
Discontinued use - I've used some type of birth control but not when I became pregnant.
In use - I was using contraception when I became pregnant.
Interrupted use - I usually use a method of contraception but through human error it was not effective (missed a pill or two, forgot to check for my IUD, did not use my diaphragm once or twice, etc.)

** Percent is read horizontally to equal 100%, i.e., each percent is the proportion of women in that marital status reporting any contraceptive use.

Table 16

REPORTED INDUCED ABORTIONS
BY AGE GROUP BY TYPE OF CONTRACEPTION AT CONCEPTION
MINNESOTA RESIDENTS, 1981

Contraceptive Type	Reported Resident Abortions	Age Group <15	15-19	20-24	25-29	30-34	35-39	40+	Unknown
None	10,678	76	3,888	3,947	1,620	733	301	107	6
Rhythm	249	0	51	76	54	38	19	11	0
Douche/ Withdrawal	136	1	44	49	14	14	13	1	0
Foam	430	0	58	134	113	85	31	8	1
Condom	703	2	236	246	113	66	30	9	1
Foam & Condom	327	0	61	148	74	22	16	5	1
Diaphragm	1,414	0	109	648	428	176	43	10	0
Intrauterine Device	228	0	22	81	75	34	14	2	0
Birth Control Pills	815	2	201	409	150	40	10	3	0
Male/Female Sterilization	57	1	0	12	17	14	9	4	0
Encare Oval	350	0	56	149	78	47	13	7	0
Injectable	1	0	0	1	0	0	0	0	0
Natural Family Planning	98	0	10	35	32	16	4	1	0
Other	335	1	65	112	79	49	22	7	0
TOTAL	15,821	83	4,801	6,047	2,847	1,334	525	175	9

GRAPH 6

REPORTED INDUCED ABORTIONS
NUMBER OF ABORTIONS BY MONTH PERFORMED
MINNESOTA RESIDENTS, 1981

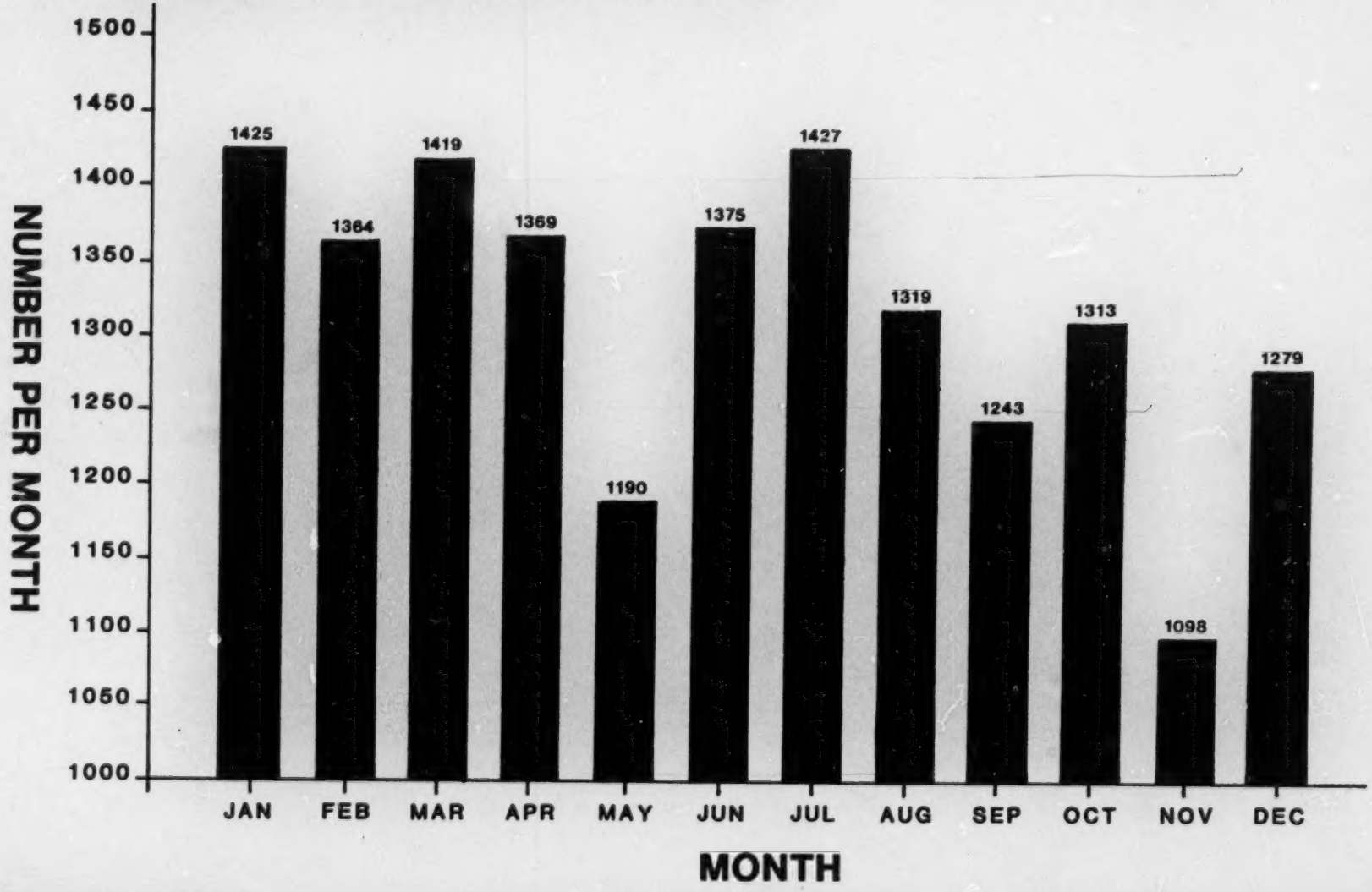


Table 17

REPORTED INDUCED ABORTIONS
BY QUARTER AND RESIDENCE

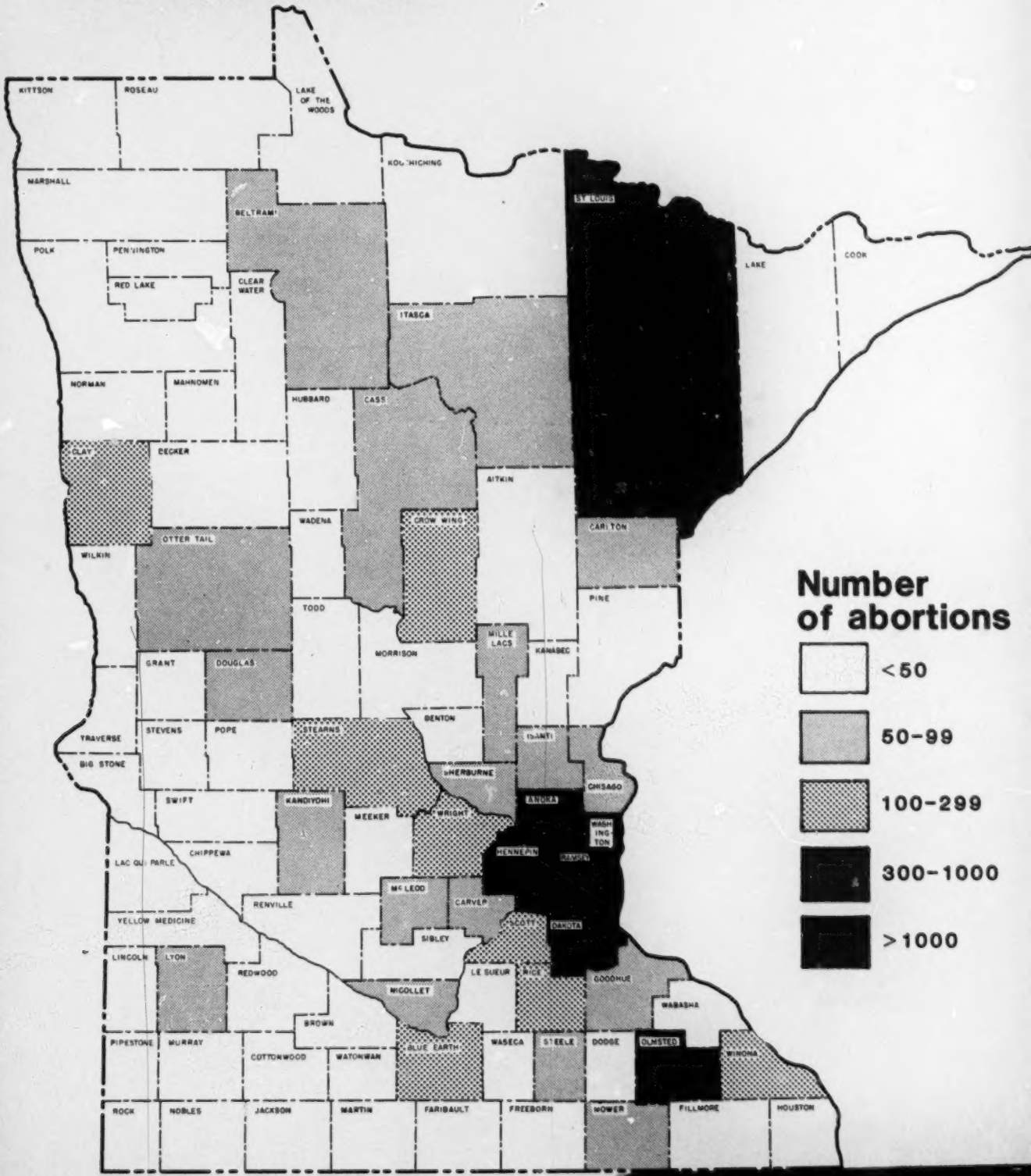
MINNESOTA, 1981

Quarter	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
Jan - Mar	4,921	26.9	4,208	26.6	85.5
Apr - June	4,553	24.9	3,934	24.9	86.4
July - Sept	4,632	25.3	3,989	25.2	86.1
Oct - Dec	4,198	22.9	3,690	23.3	87.9
TOTAL	18,304	100.0	15,821	100.0	86.4

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions (quarter X)}}{\text{Total Reported Abortions (quarter X)}}$ X 100

GRAPH 7

REPORTED INDUCED ABORTIONS BY COUNTY OF RESIDENCE MINNESOTA, 1981



Minnesota Department of Health – 1957

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Table 18

REPORTED INDUCED ABORTIONS
OCCURRING IN MINNESOTA TO NON-MINNESOTA RESIDENTS
BY STATE OR COUNTRY OF RESIDENCE, 1981

State of Residence	Reported Abortions		State of Residence	Reported Abortions	
	Number	Percentage		Number	Percentage
Alaska	2	0.1	North Carolina	3	0.1
Arizona	2	0.1	North Dakota	257	10.4
California	5	0.2	Oregon	1	0.0
Colorado	6	0.2	South Carolina	1	0.0
Delaware	1	0.0	South Dakota	335	13.5
Florida	2	0.1	Texas	2	0.1
Idaho	1	0.0	Wisconsin	1,325	53.4
Illinois	72	2.9	Wyoming	1	0.0
Indiana	4	0.2			
Iowa	187	7.5			
Kansas	1	0.0	Country of Residence		
Louisiana	1	0.0			
Massachusetts	3	0.1			
Michigan	54	2.2	Canada	172	6.9
Missouri	2	0.1			
Montana	4	0.2	Mexico	1	0.0
Nebraska	4	0.2			
New Jersey	1	0.0	Other & Unknown	30	1.2
New Mexico	1	0.0			
New York	2	0.1	TOTAL	2,483	100.0

Table 19
NUMBER OF ABORTIONS OCCURRING IN OTHER STATES
TO MINNESOTA RESIDENT WOMEN, 1981*

State	Number
Arizona	1
Kansas	3
Nebraska	4
New York	28
North Dakota	422
South Dakota	13
TOTAL	471

* This table is based on data voluntarily provided to the Minnesota Department of Health, by health departments from selected states.

DEFINITIONS*

ABORTION, INDUCED:

The intentional, premature removal from the uterus of a non-viable fetus.

ABORTION, RESIDENT:

Abortions to Minnesota residents which occurred in Minnesota and were reported during this Surveillance.

ABORTION RATE:

The number of abortions per 1,000 women in the population aged 15-44 years.

BIRTH RATE:

The number of live births per 1,000 population.

COMPLICATIONS:

Any unfavorable condition related to the abortion as reported by the provider facility including: hemorrhage ($\geq$ 500 ml), pelvic infection, fever, cervical injury, uterine perforation, or retained tissue.

CURETTE:

A spoon-shaped surgical instrument.

CURETTAGE:

The removal of material from the uterine wall with a curette. Also, the induction of endometrial bleeding by administration and withdrawal of any progestational agent.

FERTILITY RATE:

The number of live births per 1,000 women in the population aged 15-44 years.

GESTATION:

The period of development of the fetus, expressed in completed weeks, calculated from the first day of the last menstrual period (LMP).

LAMINARIA:

Sterile, dried marine plant stems which are capable of expanding with fluid absorption.

*As used in this report.

DEFINITIONS*

PREGNANCY RATE:

The number of live births, fetal deaths, and induced abortions per 1,000 women in the population aged 15-44 years.

TRIMESTER:

One third of the total gestational period necessary for a full-term pregnancy. Thirteen weeks are allotted to each trimester. The count of weeks begins with the first day of the last menstrual period.

ABORTION PROCEDURES:

Combination: Two or more abortion methods used simultaneously or sequentially.

Hysterectomy/hysterotomy: Removal of the fetus by means of a surgical incision made in the uterine wall. In the case of hysterectomy, the entire uterus is removed.

Laminaria and curettage (Dilation and Evacuation, D & E): Dilitation of the cervix by insertion of laminaria several hours before removal of uterine contents by suction and sharp curettage.

Menstrual extraction (m. regulation, m. induction): Evacuation of the uterine contents by suction curettage, usually before the 14th day after a missed menstrual period, and before the diagnosis of pregnancy is reliable. Urine pregnancy test may be negative (-) or positive (+).

Prostaglandin: Induction of labor by injection of a prostaglandin (naturally occurring hormone) solution into the amniotic sac. Laminaria are often inserted in the cervix several hours before the injection to aid dilation. Other hormones may be given intravenously to assist labor.

Saline/fluid exchange: Induction of labor by injection of a sterile salt solution into the amniotic sac. Laminaria are often inserted in the cervix several hours before the injection to aid dilation.

Sharp curettage: Mechanical dilation of the cervix with removal of the uterine contents by scraping the uterine wall with a surgical curette.

Suction curettage: Mechanical dilation of the cervix with removal of the uterine contents by low pressure suction created by an electric suction pump.

Complete and return to:

Center for Health Statistics
Minnesota Department of Health
717 Delaware St., S.E.
Minneapolis, Minnesota 55440
(612) 296-5584

5

PLEASE PRINT

REPORT OF INDUCED ABORTION

TYPE OF ADMISSION

1 = Inpatient 2 = Outpatient 3 = Clinic 4 = Other _____

FACILITY ID CODE [1]

PATIENT RESIDENCE *(Write in)*

City _____

County _____

State _____

MDH use only

12

16

18

AGE IN YEARS *(Birth Date Optional* Month ___ Day ___ Year ___ *)*

20 Years

RACE/ETHNICITY 1 = White 2 = Black 3 = American Indian 4 = Hispanic 5 = Japanese/Chinese/Asian 6 = Other 7 = Unknown

22

MARITAL STATUS 1 = Never Married 2 = Married Now 3 = Widowed 4 = Divorced 5 = Separated 6 = Unknown

23

CONTRACEPTIVES USED?

1 = Never used any contraceptive method

2 = Have used but discontinued method

3 = Was using at conception *(Method failure – See 46 below*)*

4 = Unknown

5 = Interrupted use of usual method *(Human error – See 46 below*)*

Total number of prior pregnancies to this woman *(a+b+c below)*

24

a. Total number of live births

b. Fetal deaths, spontaneous abortions

c. Number of prior induced abortions

28

DATE OF ABORTION

29 Month ___ Day ___ Year ___

DATE OF LAST NORMAL MENSES (LMP)

35 Month ___ Day ___ Year ___

GESTATION WEEKS *(Physicians estimate of completed weeks post LMP)*

41 Weeks

ABORTION METHOD

1 = Suction curettage 2 = Sharp curettage 3 = Saline/fluid exch 4 = Prostaglandin 5 = Hysterectomy/otomy 6 = Combination *(Circle each)* 7 = Menstrual extr (– preg) 8 = Menstrual extr (+ preg) 9 = Laminaria & curettage (Dilation & evacuation)

43

COMPLICATIONS OR FAILURES *(Was patient hospitalized? Yes No [Circle one])* Briefly Note any other information

0 = None 1 = Hemorrhage (500 ml) 2 = Pelvic infection 3 = Fever (>38° C) 4 = Cervical injury 5 = Uterine perforation 6 = Retained tissue 7 = Continuing pregnancy 8 = Other *(Specify)* _____

44

Optional

RELIGIOUS PREFERENCE 1 = Prot 2 = Cath 3 = Jew 4 = Other 5 = None 6 = Unk

45

*CURRENT CONTRACEPTIVE *(As indicated by 28 above)*

0 = None 1 = Rhythm 2 = Douche or Wthdrwl 3 = Foam 4 = Condom 5 = Foam + Condom 6 = Diaphragm 7 = IUD 8 = Pills 9 = Sterilization (M or F) A = Suppositories B = Injectables C = Natural Family Planning D = Other _____ E = Combination F = Unknown

46

47